

FIG. 1

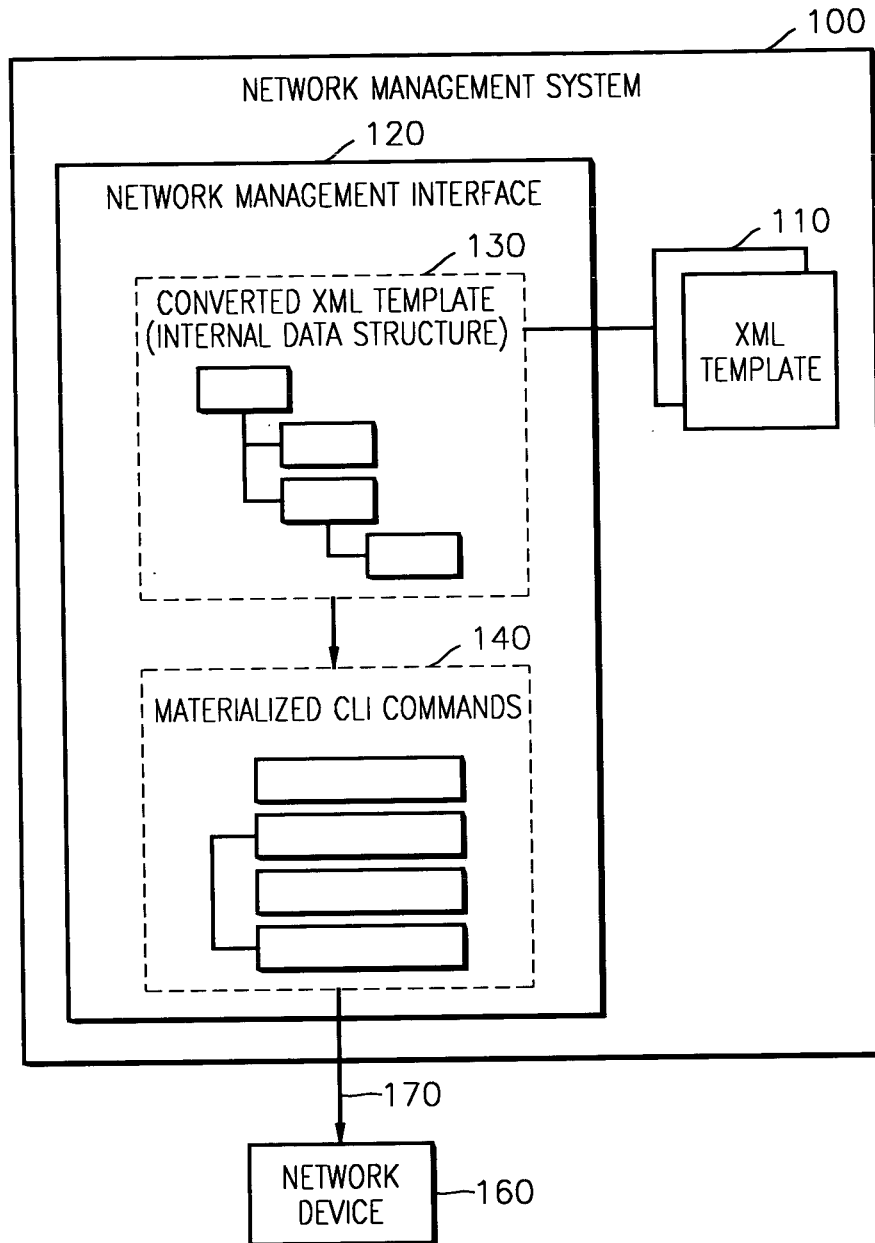


FIG. 2

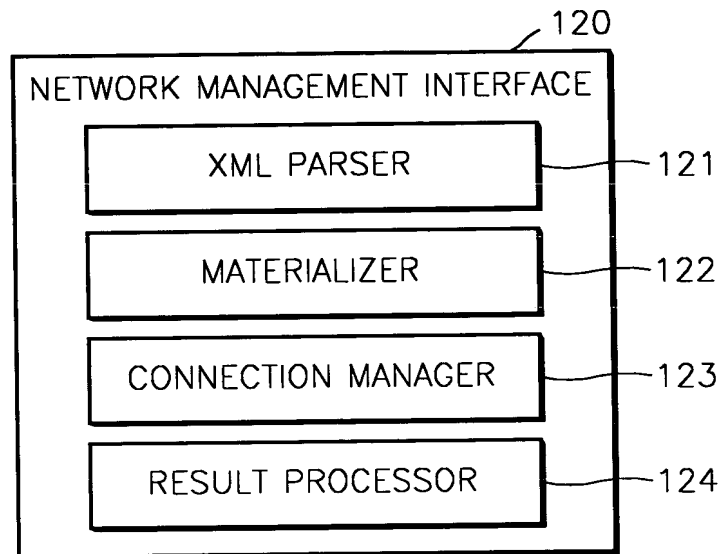


FIG. 3

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```
<!ELEMENT cli (#PCDATA | (cli)*)>
<!ATTLIST cli
tag CDATA #IMPLIED
prompt1 CDATA #IMPLIED
prompt2 CDATA #IMPLIED
command CDATA #IMPLIED
errorstr CDATA #IMPLIED
always (true | false) "false"
ainput CDATA #IMPLIED
ainputresponse CDATA #IMPLIED>
```

## FIG. 4

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```
(config)# router bgp 55555
(config-router)# address-family ipv4 vrf VRF-SEOUL
(config-router-af)# neighbor 203.255.25.15 remote-as 5555
(config-router-af)# neighbor 203.255.25.15 activate
```

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```
<cli prompt1="#" command="config terminal" errorstr="^">
  <cli tag="bgp1" prompt1="#"
    command="router bgp $asnum" errorstr="^">
    <cli>
      <cli tag="bgp2" prompt1="#"
        command="address-family ipv4 vrf $vrfname"
        errorstr="^">
        <cli>
          <cli tag="bgp3" prompt1="#"
            command="neighbor $ipn1 remote-as $nasnum"
            errorstr="^">
            </cli>
          <cli tag="bgp4" prompt1="#"
            command="neighbor $ipn2 activate"
            errorstr="^">
            </cli>
          </cli>
        </cli>
      </cli>
    </cli>
  <cli prompt1="#" always="true" command="exit"></cli>
</cli>
<cli prompt1="#" always="true" command="exit"></cli>
</cli>
<cli prompt1="#" always="true" command="exit"></cli>
</cli>
```

FIG. 5

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```
algorithm materialize(CLI root_node) {  
  if ( root_node is not a PAT ) {  
    if ( root_node needs an argument ) {  
      if ( argument at the front of argument_queue  
        is for the root_node ) {  
        argument = argument_queue.pop_front();  
        process(CLI, argument);  
      }  
      else { return; }  
    }  
    else { process(CLI); }  
  }  
  restart :  
  for( i = 0; i < root_node.children_count(); ++i ) {  
    materialize( root_node.child[ i ] );  
  }  
  
  if ( root_node is PAT &&  
    argument at the front of argument_queue is for  
    one of the children of root_node ) {  
    goto restart;  
  }  
}
```

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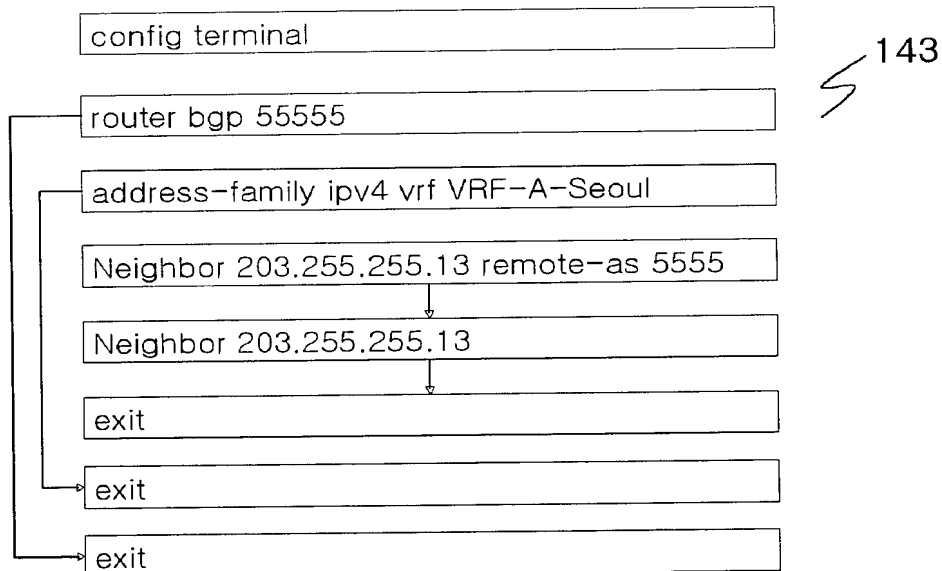


FIG. 6

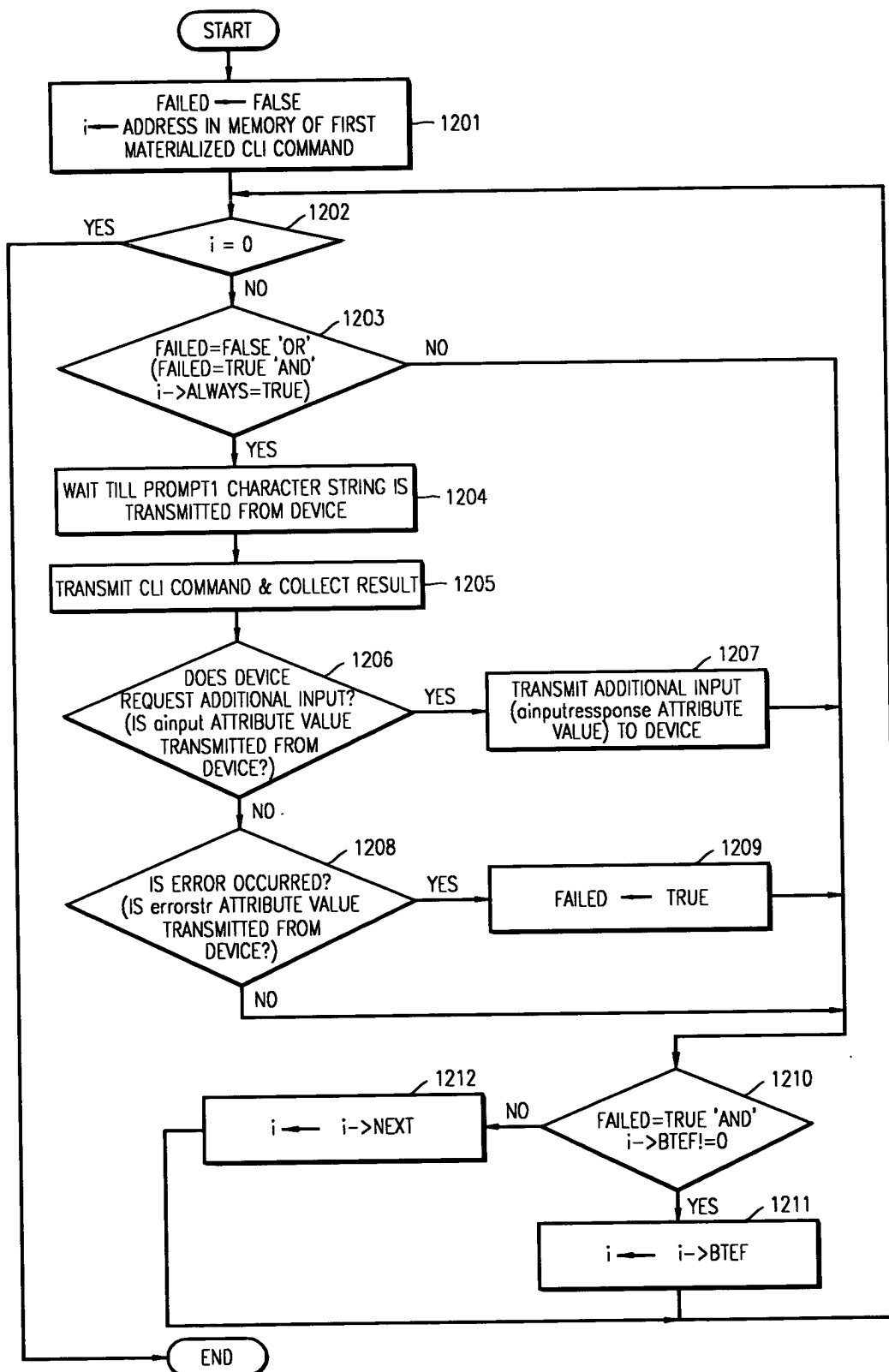


FIG. 7

